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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,673		07/24/2001	Taro Endo	01430/LH	3874
1933	7590	04/12/2006	,	EXAMINER	
		TZ, GOODMAN &	NGUYEN, KEVIN M		
220 Fifth A				ART UNIT	PAPER NUMBER
NEW YOR	NEW YORK, NY 10001-7708			2629	
				DATE MAILED: 04/12/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/911,673	ENDO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin M. Nguyen	2629				
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet w	rith the correspondence addres	is			
A SHORTENED STATUTORY PERIOD FO WHICHEVER IS LONGER, FROM THE MA - Extensions of time may be available under the provisions of after SiX (6) MONTHS from the mailing date of this commu. - If NO period for reply is specified above, the maximum statu. - Failure to reply within the set or extended period for reply w Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUN f 37 CFR 1.136(a). In no event, however, may a nication. utory period will apply and will expire SIX (6) MO ill, by statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on 10 February 2006					
<u>'</u>	b)⊠ This action is non-final.					
3) Since this application is in condition for	, —	ters, prosecution as to the me	erits is			
closed in accordance with the practice	·	·				
Disposition of Claims		·				
4) Claim(s) 6,7,9,11,13-21 and 26-28 is/s	are nending in the application					
4a) Of the above claim(s) is/are						
5) Claim(s) is/are allowed.	, mindratin nom consideration					
6) Claim(s) 6,7,9,11,13-21 and 26-28 is/s	are reiected.					
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restricti	on and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the	Evaminer					
10) The drawing(s) filed on is/are:		by the Examiner				
Applicant may not request that any objecti		-				
Replacement drawing sheet(s) including the		, ,	.121(d).			
11)☐ The oath or declaration is objected to I	by the Examiner. Note the attache	d Office Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim fo	or foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority de 	ocuments have been received.					
2. Certified copies of the priority de	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of	the priority documents have beer	received in this National Stag	је			
application from the Internation						
* See the attached detailed Office action	for a list of the certified copies not	received.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTC	D-948) Paper No	s)/Mail Date	,			
 Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 	TO/SB/08) 5) \(\bigcap \) Notice of \(\bigcap \) Other: \(\bigcap \)	Informat Patent Application (PTO-152))			

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DETAILED ACTION

Request for Continued Examination

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/10/2006 has been entered. An action on the RCE follows:
- 2. The status of claims 1-5, 8, 10, 12, 22-25 are cancelled, claim 6 is amended, claims 7, 9, 11, 13-21 and 26 are previously presented, and claims 27 and 28 are new. Thus, claims 6, 7, 9, 11, 13-21 and 26-28 are currently pending in the application.
- 3. Applicant's arguments, see pages 10-16, filed 02/10/2006, with respect to the rejection(s) of claim(s) 6, 7, 9, 11, 13-21 and 26 under the statutory basis for the previous rejection have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art references.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Michelet et al (US 6,845,277) hereinafter Michelet in view of Fukuda (US 6,295,002).

5. As to claim 6, Michelet teaches a display system [see Fig. 1] comprising: a host apparatus [10, 22] having an image input interface [20];

a display apparatus [21] which is operated by supply of at least one of a video signal [a graphics channel] and power [at least one of a power supply 34 via bus 18 and bus 19] from said host apparatus [see col. 4, lines 16-18];

a communication interface [buses 18 and 20] for communicating data between said host apparatus and said display apparatus [see col. 2, lines 40-46];

a storing section for storing on-screen display information [a display 21 provides on screen display function ...for displaying text and graphics on the video screen, col. 5, lines 47-55];

an information superimposing section [OSD decoder 54, Fig. 5] for superimposing said received on-screen display information of the video signal, wherein the host-side communication section [10, 22] transmits the video control [62, 63] having the on-screen display information superimposed thereon, the display-side communication section [52] receives the transmitted signal, and the display apparatus [60] displays and image of the on-screen display information [see col. 9, lines 10-18].

Accordingly, Michelet teaches all of the claimed limitation, except wherein said display apparatus comprises a storing section for storing power consumption data, a display-side communication-section for transmitting said stored power consumption data and said on-screen display information; wherein said host apparatus comprises:

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a host-side communication section for receiving said power consumption data transmitted from said display apparatus and said on-screen display information; a power control section for entirely performing power control of said display system based on said power consumption data received from said host-side communication section.

However, Fukuda teaches wherein said display apparatus [51] comprises a storing section for storing power consumption data [RAM 62c], a display-side communication-section [61] for transmitting said stored power consumption data and said on-screen display information; wherein said host apparatus [3] comprises:

a host-side communication section [44] for receiving said power consumption data transmitted from said display apparatus and said on-screen display information;

a power control section [controller section 1] for entirely performing power control of said display system based on said power consumption data received from said host-side communication section [see col. 6, lines 6-14].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement the battery-powered data (corresponding to the power consumption data) has been established bidirectional communication between the display section (5) and control section (1) as taught by Fukuda for the intended use of the display system of Michelet, because this would reduce the consumption electric

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power of the electronic devices, while allowing the communication system to operate for an extended period of time (see Fukuda, col. 13,lines 8-17).

- 6. <u>Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Michelet in view of Fukuda as applied to claim 6 above, and further in view of Kosugi et al (US 6,050,818) hereinafter Kosugi.</u>
- 7. As to claim 14, the combination of Michelet and Fukuda teaches all of the claimed limitation, except for said information superimposing section converts the onscreen display information stored in at least one of said first memory and said second memory into indicatable bit map information, and superimposes the indicatable bit map information on the video signal.

However, Kosugi teaches said information superimposing section [37, Fig. 6A, col. 7, lines 57-62] converts the on-screen display information stored in at least one of said first memory [a memory unit, col. 10,lines 56-57] and said second memory [col. 14, lines 18-24] into indicatable bit map information [33r, Fig. 23], and superimposes the indicatable bit map information on the video signal "the warning is superimposed on an image being displayed" [see col. 13, lines 49-53, and col. 13, line 65 through col. 14, lines 24].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement a goggle of the bit map display application, e.g., "the warning is superimposed on an image being displayed" as taught by Kosugi for the intended use of the display of the combination of Michelet and Fukuda, because the warning display would prevent any harm to the viewer's vision, a warning text is

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displayed in a white color, a warning message reminding viewers not to use the optical visualizing apparatus (1) for a prolonged time, and a warning message any negative effects on the viewer (see Kosugi, col. 8, lines 52-65).

- 8. <u>Claims 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelet in view of Fukuda, and further in view of Rallison et al (previously cited, US 5,991,085) hereinafter Rallison.</u>
- 9. As to claims 18 and 20, the combination of Michelet and Fukuda teaches all of the claimed limitation of claim 6, except wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatuses, and wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatus.

However, Rallison teaches interfacing among a plurality of types of host apparatus comprising host apparatuses (510, 503), a VCR, a videodisk player, a receiver, and a personal computer (see figure 25A) with a plurality of types of display apparatus comprising a HUD 102, a monitor, and a television 515a (see figure 22).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement interfacing among the plurality of types of display apparatuses with the plurality of types of host apparatuses as taught by Rallison for the intended use of the combination of Michelet and Fukuda, because a number of variations and modifications of the invention can be also be used (see Rallison, col. 30, lines 38-40),e.g., the head mounted display can be combined with or coupled to other devices (see Rallison, col. 30, lines 55-57).

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10. Claim 7, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable by Michelet.

- 11. As to claim 7, Michelet teaches a display system [Fig. 5] comprising:
 - a host apparatus [50] having an image output interface [51];
- a display apparatus [60] which is operated by receiving at least a video signal [62] from said host apparatus [50];

a communication interface [63] for communicating data between said host apparatus [50] and said display apparatus [60, col. 2, lines 40-46];

wherein said display apparatus [60] comprises a memory for storing on-screen display information [OSD in element 54], and a display-side communication section [54] for transmitting the on-screen display information.

Michelet further teaches said host apparatus [50] comprises a host-side communication section [63] for receiving the on-screen display information transmitted by said display apparatus [a hardware monitoring circuit, not shown in Fig. 5, col. 9, lines 13-14 which receives a direct access to the OSD functions of a display or a screen and which, therefore, can provide enhance feedback information about hardware condition, see Fig. 5, col. 9, lines 20-24], and an information superimposing section for superimposing the received on-screen display information on the video signal [the superimposition of the OSD text and graphics on the video screen, col. 9, lines 10-18].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the embodiment of Fig. 1 and embodiment of Fig. 5 for

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any electronic circuitry providing other functions than hardware monitoring can take benefit from the teaching of the prevent invention [see col. 9, lines 23-26].

- 12. As to claim 9, Michelet teaches wherein said communication interface has a specification for communication between said host-side communication section and said display-side communication section which conforms with a DDC1/DD2B/DD2AB standard prescribed by Video Electronics Standards Association [see col. 6,lines 4-19].
- 13. As to claim 11, Michelet teaches wherein said display apparatus includes a mode for operating only said communication interface for communication with said host apparatus [see col. 2, lines 39-46].
- 14. <u>Claims 15, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelet in view of Kosugi.</u>

As to claim 15, Michelet teaches all of the claimed limitation of claim 7, except for said information superimposing section converts the on-screen display information stored in at least one of said first memory and said second memory into indicatable bit map information, and superimposes the indicatable bit map information on the video signal.

However, Kosugi teaches said information superimposing section [37, Fig. 6A, col. 7, lines 57-62] converts the on-screen display information stored in at least one of said first memory [a memory unit, col. 10,lines 56-57] and said second memory [col. 14, lines 18-24] into indicatable bit map information [33r, Fig. 23], and superimposes the indicatable bit map information on the video signal "the warning is superimposed on an

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image being displayed [see col. 13, lines 49-53, and col. 13, line 65 through col. 14, lines 24].

As to claims 27 and 28, Kosugi teaches wherein the display apparatus comprises a microdisplay apparatus that is wearable by a user, and wherein the display apparatus comprises a microdisplay apparatus that is wearable on at least one of a head and face of a user [see Fig. 1, col. 4, lines 30-36].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement a goggle including a bit map display application, e.g., "the warning is superimposed on an image being displayed" as taught by Kosugi for the intended use of the display of the display system of Michelet, because the warning display would prevent any harm to the viewer's vision, a warning text is displayed in a white color, a warning message reminding viewers not to use the optical visualizing apparatus (1) for a prolonged time, and a warning message any negative effects on the viewer (see Kosugi, col. 8, lines 52-65).

15. <u>Claims 13, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable</u> over Michelet in view of Rallison.

As to claims 18 and 20, Michelet teaches all of the claimed limitation of claim 7, except wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatuses, and wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatus.

However, Rallison teaches interfacing among a plurality of types of host apparatus comprising host apparatuses (510, 503), a VCR, a videodisk player, a

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receiver, and a personal computer (see figure 25A) with a plurality of types of display apparatus comprising a HUD 102, a monitor, and a television 515a (see figure 22).

As to claim 13, Rallison teaches wherein said display apparatus further comprises an indicator lamp for alarm display [Fig. 17A, col. 18,lines 18-24].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement interfacing among the plurality of types of display apparatuses with the plurality of types of host apparatuses as taught by Rallison for the intended use of the display system of Michelet, because a number of variations and modifications of the invention can be also be used (see Rallison, col. 30, lines 38-40), e.g., the head mounted display can be combined with or coupled to other devices (see Rallison, col. 30, lines 55-57).

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. NGUYEN whose telephone number is 571-272-7697. The examiner can normally be reached on MON-THU from 8:00-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, a supervisor RICHARD A. HJERPE can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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Lavin M. Nguyar Kevin M. Nguyen

Patent Examiner Art Unit 2629

KMN April 10, 2006